My/our residence, post office address and citizenship are as stated below next to my name,

I/We believe I am/we are a original, first and joint inve and claimed in patent num sought on the invention er	ntor (if plural names are li nber <u>4,849,432</u> , granted ,	sted below) of the subject : July 18, 1989 and for whic	matter which is describe
the specification of which			
(check one) □ i	is being filed herewith, or		
		2002 as reissue applic nded through April 12, 200	
I hereby reviewed and und claims, as amended by an	derstand the contents of the same amendment referred to	he above identified specification	cation, including the
I acknowledge the duty to Code of Federal Regulation	disclose information whicons §1.56.	h is material to patentabili	ty as defined in Title 37,
I hereby claim foreign prio application(s) for patent or application for patent or in priority is claimed:	inventor's certificate liste	d below and have also ide	entified below any foreign
Prior Foreign Application	n(s)		Priority Claimed
SHO 61-48629 (Number)	<u>Japan</u> (Country)	07 March 1986 (Day/Month/Yr. Filed	⊠yes □ no)
(Number)	(Country)	(Day/Month/Yr. Filed)	□yes □ no)
I hereby claim the benefit is listed below and, insofar a in the prior United States a States Code, §112, I acknow Federal Regulations, §1 national or PCT internation (Application Serial No.)	s the subject matter of ea application in the manner owledge the duty to disclo .56(a) which occurred be	ch of the claims of this approvided by the first parages material information as tween the filing data of the cation: (State of the content of the cation:	olication is not disclosed raph of Title 35, United defined in Title 37, Code
(Application Serial No.)	(Filing Da	•	atus) ding, abandoned)
(Application Serial No.)	(Filing Da		atus)

(Filing Date)

(Status) (patented, pending, abandoned)

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I verily believe the original patent to be wholly below. (check all boxes that apply)	or partly inoperative or invalid, for the reasons described
☐ by reason of a defective spe	cification or drawing.
☐ by reason of the patentee cla the patent.	aiming more or less than he had the right to claim in
⊠ by reason of other errors as	described below.
1, in turn, limits such compound to those where substituted by methyl." Patent claim 9 recites tetrahydrothiazine compound, which would contain the substituted by methyl.	rrespond to compounds of patent claim 1 wherein A aim 1 does not permit A to represent a propylene group.
Second, the USPTO has determined that pate inventions, and has required restriction.	nt claims contain multiple independent and distinct
The present reissue application corrects these limited to pyrrolidine compounds by amending CH-R ³ , and canceling original patent claims 2-	two errors as follows: The patent claims have been original patent claim 1 to cancel values of X other than 6 and 9.
All errors corrected in this reissue application a applicant.	arose without any deceptive intention on the part of the
with the knowledge that willful false statements imprisonment, or both, under Section 1001 of 1	in of my own knowledge are true and that all statements be true; and further that these statements were made and the like so made are punishable by fine or Fitle 18 of the United States Code and that such willful the application or any patent issued thereon, or any
POWER OF ATTORNEY: As a named invento	r, I hereby appoint
Practioners Associated with the Customer Number:	27384
as my/our attorney(s) and/or agent(s) to prosect Patent and Trademark Office connected therewards	cute this application and transact all business in the with.
The undersigned hereby authorizes the U.S.	attorney or agent named herein to accept and follow

DIRECT TELEPHONE CALLS TO: Kurt G. Briscoe

attorney or agent and the undersigned.

instructions from the Assignee of this application as to any action to be taken in the United States Patent and Trademark Office regarding this application without direct communication between the U.S.

FULL NAME OF SOLE OR FIRST INVENTOR KOZO SHIOKAWA	INVENTOR'S SIG	SNATURE	DATE
RESIDENCE 6-2-13 Chuo, Sagamihara-shi, Kanagawa, 229-0039, Jap	an	CITIZENSHIP Japanese	
POST OFFICE ADDRESS	an	Japanese	
Same as above			
FULL NAME OF SECOND JOINT INVENTOR, IF ANY SHINICHI TSUBOI	INVENTOR'S SIG	NATURE	DATE
RESIDENCE 1-57-S 410, Wada, Suginami-ku, Tokyo, 166-0012, Japan	,	CITIZENSHIP Japanese	
POST OFFICE ADDRESS Same as above			
FULL NAME OF THIRD JOINT INVENTOR, IF ANY SHINZO KAGABU	INVENTOR'S SIG	SNATURE	DATE
RESIDENCE 1246-22, Nagara, Gifu-shi, Gifu, 502-0071, Japan POST OFFICE ADDRESS		CITIZENSHIP Japanese	,
Same as above			
FULL NAME OF FOURTH JOINT INVENTOR, IF ANY SHOKO SASAKI	INVENTOR'S SIG		DATE April 19, 2006
RESIDENCE 6-10-8-111, Minamidaira, Hino-shi, Tokyo, 191-0041, Japa POST OFFICE ADDRESS	The large the strategic to the strategic	CITIZENSHIP Japanese	The second secon
Same as above			
FULL NAME OF FIFTH JOINT INVENTOR, IF ANY KOICHI MORIYA	INVENTOR'S SIG	NATURE	DATE
RESIDENCE 3-15-8-701, Asakusabashi, Taito-ku, Tokyo, 111-0053-Jap	pan	CITIZENSHIP Japanese	
POST OFFICE ADDRESS Same as above			
FULL NAME OF SIXTH JOINT INVENTOR, IF ANY YUMI HATORI	INVENTOR'S SIG	NATURE	DATE
RESIDENCE 12397-4, Yuki, Yuki-shi, Ibaraki, 307-0001, Japan POST OFFICE ADDRESS		CITIZENSHIP Japanese	
Same as above			
FULL NAME OF SEVENTH JOINT INVENTOR, IF ANY	INVENTOR'S SIG	NATURE	DATE
RESIDENCE		CITIZENSHIP	
POST OFFICE ADDRESS			
FULL NAME OF EIGHTH JOINT INVENTOR, IF ANY	'INVENTOR'S SIG	NATURE	DATE
FULL NAME OF EIGHTH JOINT INVENTOR, IF ANY RESIDENCE	INVENTOR'S SIG	NATURE CITIZENSHIP	DATE

My/our residence, post office address and citizenship are as stated below next to my name,

I/We believe I am/we original, first and join and claimed in paten sought on the inventi	t inventor (if plural r t number <u>4,849,43</u> 3	names are liste 2 , granted <u>Jul</u>	d below) of t y 18, 1989	he subject mat	ter which is	describe
the specification of w	hich					
(check one)	☐ is being filed h	erewith, or				•
	⊠ was filed on_ <u>I</u> 10/067,189 an				n serial nur	nber
I hereby reviewed an claims, as amended	d understand the c by any amendment	ontents of the a	above identi ove.	fied specificati	on, includin	g the
l acknowledge the du Code of Federal Reg		mation which is	s material to	patentability a	s defined in	Title 37,
I hereby claim foreigr application(s) for pate application for patent priority is claimed:	ent or inventor's cer	tificate listed b	elow and ha	ave also identif	ied below a	ny foreigr
Prior Foreign Appl	ication(s)				Priority	Claimed
SHO 61-48629 (Number)	(Countr		07 March (Day/Mon	1986 th/Yr. Filed)	☑yes	□ no
(Number)	(Countr	y)	(Day/Mon	th/Yr. Filed)	□yes	□ no
I hereby claim the belisted below and, inso in the prior United States Code, §112, I of Federal Regulation national or PCT intern	ofar as the subject rates application in the acknowledge the displayments, §1.56(a) which conational filing date of	matter of each he manner pro uty to disclose occurred between of this application.	of the claims vided by the material info en the filing	s of this applica first paragrapl rmation as def	ation is not on the hot of Title 35 ined in Title	disclosed 5, United 37, Code
(Application Serial	No.)	(Filing Date)		(Status (patented, pending,		
(Application Serial	No.)	(Filing Date)		(Status (patented, pending,		
(Application Serial	No.)	(Filing Date)		(Status	s) ·	

(patented, pending, abandoned)

I verily believe the original patent to be wholly or below. (check all boxes that apply)	r partly inoperative or invalid, for the reasons described
☐ by reason of a defective speci	ification or drawing.
by reason of the patentee claim the patent.	ming more or less than he had the right to claim in
⊠ by reason of other errors as d	escribed below.
 in turn, limits such compound to those whereis substituted by methyl." Patent claim 9 recites twatetrahydrothiazine compound, which would corre 	quires "a compound according to claim 1." Patent claim in "A represents an ethylene group which may be to tetrahydropyrimidine compounds and one espond to compounds of patent claim 1 wherein A im 1 does not permit A to represent a propylene group.
Second, the USPTO has determined that patent inventions, and has required restriction.	t claims contain multiple independent and distinct
The present reissue application corrects these to limited to pyrrolidine compounds by amending of CH-R ³ , and canceling original patent claims 2-6	wo errors as follows: The patent claims have been riginal patent claim 1 to cancel values of X other than and 9.
All errors corrected in this reissue application are applicant.	ose without any deceptive intention on the part of the
made on information and belief are believed to be with the knowledge that willful false statements a imprisonment, or both, under Section 1001 of Tit	of my own knowledge are true and that all statements be true; and further that these statements were made and the like so made are punishable by fine or the 18 of the United States Code and that such willful ne application or any patent issued thereon, or any
POWER OF ATTORNEY: As a named inventor,	I hereby appoint
Practioners Associated with the Customer Number:	27384
as my/our attorney(s) and/or agent(s) to prosecu Patent and Trademark Office connected therewit	te this application and transact all business in the th.
The undersigned hereby authorizes the U.S. a	ttorney or agent named herein to accept and follow

DIRECT TELEPHONE CALLS TO: Kurt G. Briscoe

attorney or agent and the undersigned.

instructions from the Assignee of this application as to any action to be taken in the United States Patent and Trademark Office regarding this application without direct communication between the U.S.

FULL NAME OF SOLE OR FIRST INVENTOR	INVENTOR'S SIG	SNATURE	DATE
KOZO SHIOKAWA	las St		19 April 2006
RESIDENCE	- word	CITIZENSHIP	ICI FAME WOO
6-2-13 Chuo, Sagamihara-shi, Kanagawa, 229-0039, Japa	an	Japanese	
POST OFFICE ADDRESS			
Same as above			
FULL NAME OF SECOND JOINT INVENTOR, IF ANY SHINICHI TSUBOI	INVENTOR'S SIG	-	DATE
RESIDENCE 1-57-S 410, Wada, Suginami-ku, Tokyo, 166-0012, Japan	l	CITIZENSHIP Japanese	
POST OFFICE ADDRESS Same as above			
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FULL NAME OF THIRD JOINT INVENTOR, IF ANY SHINZO KAGABU	INVENTOR'S SIG	SNATURE	DATE
RESIDENCE 1246-22, Nagara, Gifu-shi, Gifu, 502-0071, Japan		CITIZENSHIP Japanese	!
POST OFFICE ADDRESS Same as above			
	· · · · · · · · · · · · · · · · · · ·		
FULL NAME OF FOURTH JOINT INVENTOR, IF ANY SHOKO SASAKI	INVENTOR'S SIG	SNATURE	DATE
RESIDENCE 6-10-8-111, Minamidaira, Hino-shi, Tokyo, 191-0041, Japa		CITIZENSHIP Japanese	
POST OFFICE ADDRESS	111	Japanese	
Same as above	·		
FULL NAME OF FIFTH JOINT INVENTOR, IF ANY KOICHI MORIYA	INVENTOR'S SIG	NATURE	DATE
RESIDENCE	<u> </u>	CITIZENSHIP	
3-15-8-701, Asakusabashi, Taito-ku, Tokyo, 111-0053-Jap POST OFFICE ADDRESS	ean	Japanese	
Same as above			
FULL NAME OF SIXTH JOINT INVENTOR, IF ANY YUMI HATORI	INVENTOR'S SIG	NATURE	DATE
RESIDENCE 12397-4, Yuki, Yuki-shi, Ibaraki, 307-0001, Japan		CITIZENSHIP	
POST OFFICE ADDRESS	· · · · · · · · · · · · · · · · · · ·	Japanese	
Same as above			
FULL NAME OF SEVENTH JOINT INVENTOR, IF ANY	INVENTOR'S SIG	NATURE	DATE
RESIDENCE		CITIZENSHIP	
		OTTIZENOTIF	
POST OFFICE ADDRESS			
FILL NAME OF FIGURE 100			· · · · · · · · · · · · · · · · · · ·
FULL NAME OF EIGHTH JOINT INVENTOR, IF ANY	INVENTOR'S SIG	NATURE	DATE
RESIDENCE		CITIZENSHIP	
POST OFFICE ADDRESS			
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My/our residence, post office address and citizenship are as stated below next to my name,

I/We believe I am/we original, first and joint and claimed in paten sought on the invention	inventor (if plural na t number <u>4,849,432</u>	mes are listed , granted <u>July</u>	below) of the s 18, 1989 and f	ubject matter v	vhich is	des	cribed
the specification of w	hich						
(check one)	☐ is being filed he	rewith, or	•				
	⊠ was filed on <u>Fe</u> 10/067,189 and				rial num	ıber	
I hereby reviewed an claims, as amended				specification, i	ncludinç	g the)
I acknowledge the du Code of Federal Reg		ation which is	material to pate	entability as de	fined in	Title	∍ 37,
I hereby claim foreign application(s) for pate application for patent priority is claimed:	ent or inventor's cert	ificate listed be	low and have a	also identified l	below ar	ny fo	oreigr which
Prior Foreign Appl	ication(s)				Priority (Clair	med
<u>SHO 61-48629</u> (Number)	<u>Japar</u> (Country		07 March 198 (Day/Month/Y		⊠yes		no
(Number)	(Country	')	(Day/Month/Y		□yes		no
I hereby claim the be listed below and, inso in the prior United Sta States Code, §112, I of Federal Regulation national or PCT inters	ofar as the subject mates application in the acknowledge the duns, §1.56(a) which on	natter of each on the manner proving to disclose m to disclose manager in the discourted between the manager in	f the claims of ided by the firs naterial informant the filing date	this application it paragraph of ition as defined	n is not o Title 35 d in Title	discl , Un 37,	losed lited Code
(Application Serial	No.)	(Filing Date)	(pate	(Status) ented, pending, abar	ndoned)		
(Application Serial	No.)	(Filing Date)	(pate	(Status) ented, pending, abar	ndoned)		
(Application Serial	No.)	(Filing Date)	(pate	(Status) ented, pending, abar	ndoned)		

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☐ by reason of the patentee cla the patent.	aiming more or less than he had the right to claim in
☑ by reason of other errors as	described below.
1, in turn, limits such compound to those wher substituted by methyl." Patent claim 9 recites tetrahydrothiazine compound, which would con	respond to compounds of patent claim 1 wherein A aim 1 does not permit A to represent a propylene group.
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All errors corrected in this reissue application a applicant.	arose without any deceptive intention on the part of the
with the knowledge that willful false statements imprisonment, or both, under Section 1001 of 1	in of my own knowledge are true and that all statements be true; and further that these statements were made and the like so made are punishable by fine or Fitle 18 of the United States Code and that such willful the application or any patent issued thereon, or any
POWER OF ATTORNEY: As a named invento	r, I hereby appoint
Practioners Associated with the Customer Number:	27384
as my/our attorney(s) and/or agent(s) to prosect Patent and Trademark Office connected therev	ute this application and transact all business in the with.
The undersigned hereby authorizes the U.S. instructions from the Assignee of this application and Trademork Office recording this application.	attorney or agent named herein to accept and follow nas to any action to be taken in the United States Patent

DIRECT TELEPHONE CALLS TO: Kurt G. Briscoe

attorney or agent and the undersigned.

and Trademark Office regarding this application without direct communication between the U.S.

FULL NAME OF SOLE OR FIRST INVENTOR KOZO SHIOKAWA	INVENTOR'S SIG	SNATURE	DATE
RESIDENCE		CITIZENSHIP	I
6-2-13 Chuo, Sagamihara-shi, Kanagawa, 229-0039, Japa	an	Japanese	
POST OFFICE ADDRESS			
Same as above			
FULL NAME OF SECOND JOINT INVENTOR, IF ANY SHINICHI TSUBOI	INVENTOR'S SIG	GNATURE	DATE
RESIDENCE 1-57-S 410, Wada, Suginami-ku, Tokyo, 166-0012, Japan		CITIZENSHIP Japanese	· · · · · · · · · · · · · · · · · · ·
POST OFFICE ADDRESS Same as above			
ELILI NAME OF THIRD JOINT INVENTOR IS ANY	100/50/50		
FULL NAME OF THIRD JOINT INVENTOR, IF ANY SHINZO KAGABU	INVENTOR'S SIG		DATE 17,2006
RESIDENCE		CITIZENSHIP	
1246-22, Nagara, Gifu-shi, Gifu, 502-0071, Japan	·	Japanese	
POST OFFICE ADDRESS Same as above			
FULL NAME OF FOURTH JOINT INVENTOR, IF ANY SHOKO SASAKI	INVENTOR'S SIG	NATURE	DATE
RESIDENCE 6-10-8-111, Minamidaira, Hino-shi, Tokyo, 191-0041, Japa	ın .	CITIZENSHIP Japanese	
POST OFFICE ADDRESS	-	Tupanese	
Same as above			
FULL NAME OF FIFTH JOINT INVENTOR, IF ANY KOICHI MORIYA	INVENTOR'S SIG	NATURE	DATE
RESIDENCE 3-15-8-701, Asakusabashi, Taito-ku, Tokyo, 111-0053-Jap	an	CITIZENSHIP Japanese	
POST OFFICE ADDRESS			
Same as above			
FULL NAME OF SIXTH JOINT INVENTOR, IF ANY YUMI HATORI	INVENTOR'S SIG	NATURE	DATE
RESIDENCE	l	CITIZENSHIP	
12397-4, Yuki, Yuki-shi, Ibaraki, 307-0001, Japan		Japanese	
POST OFFICE ADDRESS		- таралово	
Same as above			
FULL NAME OF SEVENTH JOINT INVENTOR, IF ANY	INVENTOR'S SIG	NATURE	DATE
RESIDENCE	1	CITIZENSHIP	
POST OFFICE ADDRESS			
FULL NAME OF EIGHTH JOINT INVENTOR, IF ANY	INVENTOR'S SIG	NATURE	DATE
RESIDENCE		CITIZENSHIP	
POST OFFICE ADDRESS			

(Application Serial No.)

My/our residence, post office address and citizenship are as stated below next to my name,

original, first and join and claimed in pater sought on the invent	t inventor (if plural r it number <u>4,849,43</u>	names are listed <mark>2</mark> , granted <u>July</u>	below) of the 18, 1989 and	subject matter	r which is	described
the specification of w	/hich					
(check one)	☐ is being filed h	nerewith, or				
	⊠ was filed on_ <u>l</u> <u>10/067,189</u> an	February 4, 200 d was amended			serial nun	nber
I hereby reviewed an claims, as amended				d specification	, includin	g the
I acknowledge the du Code of Federal Reg		mation which is	material to pa	atentability as o	defined in	Title 37,
I hereby claim foreign application(s) for pate application for patent priority is claimed:	ent or inventor's ce	rtificate listed be	elow and have	e also identified	d below a	ny foreign
Prior Foreign App	lication(s)				Priority	Claimed
SHO 61-48629 (Number)	(Countr		07 March 19 (Day/Month		☑yes	□ no
(Number)	(Countr	у)	(Day/Month/	Yr. Filed)	□yes	□ no
I hereby claim the be listed below and, inso in the prior United Sta States Code, §112, I of Federal Regulation national or PCT interes (Application Serial	ofar as the subject in a test application in the acknowledge the distributions, §1.56(a) which contains date of the contains and the contains	matter of each on the manner proving to disclose no occurred between	of the claims of the finaterial informent the filing date.	of this application rst paragraph of nation as define	on is not of Title 35 ad in Title application	disclosèd 5, United 37, Code
(Application Serial	No.)	(Filing Date)		(Status)		

(Filing Date)

(Status) (patented, pending, abandoned)

I verily believe the original patent to be wholly or partly inoperative or invalid, for the reasons described below. (check all boxes that apply)
☐ by reason of a defective specification or drawing.
by reason of the patentee claiming more or less than he had the right to claim in the patent.
⊠ by reason of other errors as described below.
The present reissue application is filed to correct two errors: First, patent claim 9 is improperly dependent on patent claim 8. Patent claim 8 requires "a compound according to claim 1." Patent claim 1, in turn, limits such compound to those wherein "A represents an ethylene group which may be substituted by methyl." Patent claim 9 recites two tetrahydropyrimidine compounds and one tetrahydrothiazine compound, which would correspond to compounds of patent claim 1 wherein A represents a propylene group. Since patent claim 1 does not permit A to represent a propylene group, patent claim 9 is improperly dependent on patent claim 8.
Second, the USPTO has determined that patent claims contain multiple independent and distinct inventions, and has required restriction.
The present reissue application corrects these two errors as follows: The patent claims have been limited to pyrrolidine compounds by amending original patent claim 1 to cancel values of X other than CH-R³, and canceling original patent claims 2-6 and 9.
All errors corrected in this reissue application arose without any deceptive intention on the part of the applicant.
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon, or any patent to which this declaration is directed.
POWER OF ATTORNEY: As a named inventor, I hereby appoint
Practioners Associated with the Customer Number: 27384
as my/our attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

DIRECT TELEPHONE CALLS TO:

attorney or agent and the undersigned.

Kurt G. Briscoe

(212) 808-0700

The undersigned hereby authorizes the U.S. attorney or agent named herein to accept and follow instructions from the Assignee of this application as to any action to be taken in the United States Patent and Trademark Office regarding this application without direct communication between the U.S.

FULL NAME OF SOLE OR FIRST INVENTOR KOZO SHIOKAWA	INVENTOR'S SIG		DATE
RESIDENCE 6-2-13 Chuo, Sagamihara-shi, Kanagawa, 229-0039, Japa	an	CITIZENSHIP Japanese	
POST OFFICE ADDRESS	<u> </u>	Japanese	
Same as above	and the second	Completion with the self-stable property and the self-self-self-self-self-self-self-self-	
	and the second s	And the state of t	The second secon
FULL NAME OF SECOND JOINT INVENTOR, IF ANY SHINICHI TSUBOI	INVENTOR'S SIG	MATURE (DATE 20 April, 06
RESIDENCE	The same of the sa	CITIZENSHIP	The same of the sa
1-57-S 410, Wada, Suginami-ku, Tokyo, 166-0012, Japan	- Accessing	Japanese	
POST OFFICE ADDRESS			
Same as above			
FULL NAME OF THIRD JOINT INVENTOR, IF ANY SHINZO KAGABU	INVENTOR'S SIG	NATURE	DATE
RESIDENCE		CITIZENSHIP	
1246-22, Nagara, Gifu-shi, Gifu, 502-0071, Japan		Japanese	
POST OFFICE ADDRESS			
Same as above	· · · · · · · · · · · · · · · · · · ·		
FULL MANE OF FOURTH JOINT IN TENTOS IS 122	INVENTABLE CO	NATIES	DATE
FULL NAME OF FOURTH JOINT INVENTOR, IF ANY SHOKO SASAKI	INVENTOR'S SIG	· · · · · · · · · · · · · · · · · · ·	DATE
RESIDENCE		CITIZENSHIP	
6-10-8-111, Minamidaira, Hino-shi, Tokyo, 191-0041, Japa	ın	Japanese	
POST OFFICE ADDRESS Same as above			•
Same as above	4.44.4.500		
	and the same of th	The state of the s	
FULL NAME OF FIFTH JOINT INVENTOR IF ANY	INVENTOR'S SIG	NATURE	DATE .
FULL NAME OF FIFTH JOINT INVENTOR, IF ANY KOICHI MORIYA	INVENTOR'S SIG	NATURE	DATE / 2006
FULL NAME OF FIFTH JOINT INVENTOR, IF ANY KOICHI MORIYA RESIDENCE	INVENTOR'S SIG	NATURE M CITIZENSHIP	DATE / Zout
RESIDENCE 3-15-8-701, Asakusabashi, Taito-ku, Tokyo, 111-0053-Jap	Korchi Phr	man	DATE 18 April 2006
RESIDENCE 3-15-8-701, Asakusabashi, Taito-ku, Tokyo, 111-0053-Jap POST OFFICE ADDRESS	Korchi Phr	CITIZENSHIP	DATE 18 April 2006
RESIDENCE 3-15-8-701, Asakusabashi, Taito-ku, Tokyo, 111-0053-Jap	Korchi Phr	CITIZENSHIP	DATE 18 April 2006
KOICHI MORIYA RESIDENCE 3-15-8-701, Asakusabashi, Taito-ku, Tokyo, 111-0053-Jap POST OFFICE ADDRESS Same as above	Shoudir (Phran	CITIZENSHIP Japanese	10 April 2000
KOICHI MORIYA RESIDENCE 3-15-8-701, Asakusabashi, Taito-ku, Tokyo, 111-0053-Jap POST OFFICE ADDRESS Same as above FULL NAME OF SIXTH JOINT INVENTOR, IF ANY	INVENTOR'S SIG	CITIZENSHIP Japanese NATURE	DATE
KOICHI MORIYA RESIDENCE 3-15-8-701, Asakusabashi, Taito-ku, Tokyo, 111-0053-Jap POST OFFICE ADDRESS Same as above FULL NAME OF SIXTH JOINT INVENTOR, IF ANY YUMI HATORI	Shoudir (Phran	CITIZENSHIP Japanese NATURE	10 April 2000
RESIDENCE 3-15-8-701, Asakusabashi, Taito-ku, Tokyo, 111-0053-Jap POST OFFICE ADDRESS Same as above FULL NAME OF SIXTH JOINT INVENTOR, IF ANY YUMI HATORI RESIDENCE	INVENTOR'S SIG	CITIZENSHIP Japanese NATURE CITIZENSHIP	DATE
RESIDENCE 3-15-8-701, Asakusabashi, Taito-ku, Tokyo, 111-0053-Jap POST OFFICE ADDRESS Same as above FULL NAME OF SIXTH JOINT INVENTOR, IF ANY YUMI HATORI RESIDENCE 12397-4, Yuki, Yuki-shi, Ibaraki, 307-0001, Japan	INVENTOR'S SIG	CITIZENSHIP Japanese NATURE	DATE
RESIDENCE 3-15-8-701, Asakusabashi, Taito-ku, Tokyo, 111-0053-Jap POST OFFICE ADDRESS Same as above FULL NAME OF SIXTH JOINT INVENTOR, IF ANY YUMI HATORI RESIDENCE 12397-4, Yuki, Yuki-shi, Ibaraki, 307-0001, Japan POST OFFICE ADDRESS	INVENTOR'S SIG	CITIZENSHIP Japanese NATURE CITIZENSHIP	DATE
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